

# Applied Hazard & Operability Studies (HAZOP)



Unit Code: CPE 6240

How can you control hazards in the workplace? The Hazard and Operability study (HAZOP) is an excellent risk assessment tool that enables you to identify these and reduce the associated risks. This four-day module will give you all the skills required to carry out and interpret a HAZOP study.

The principles and practice, as adopted within the process industries, are demonstrated by case study material. These are selected to illustrate a wide range of applications. This module gives experience of study team involvement. Guidance is given on the management of HAZOP and case studies include both continuous and batch processes.

## Course Content

- **A summary of the HAZOP technique including:**
  - What is HAZOP?
  - Why is HAZOP used?
  - How is HAZOP applied?
  - A typical HAZOP study leaders checklist
  - When is HAZOP used?
- **The place of HAZOP in risk management**
- **The technique of HAZOP study** — the purpose of HAZOP and the best way to apply it
- **HAZOP study reporting** — the best method to report a HAZOP study either in full or by exception, manually or by computer
- **HAZOP application to a continuous system, batch processes and operating procedures**
- **The psychology of perception** — the perception of process hazards and related problems
- **Information required to carry out a HAZOP study**
- **Documentation generated during a HAZOP study**
- **The management of HAZOP studies** — how to manage HAZOPs better, including:
- **Non-process applications of HAZOP** — computer control systems, mechanical/human interface systems, electrical distribution and control systems and human factors and organisation

